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BULLETIN

Georgia State College of Agriculture

Athens, Ga.

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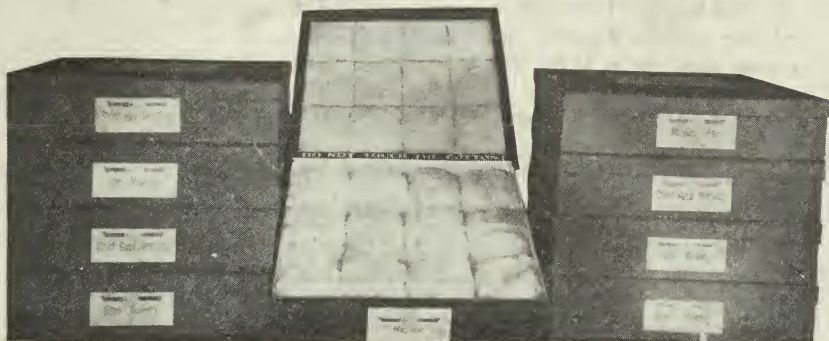
Circular 52

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Summer Courses at Georgia State College of Agriculture, 1917 July 2nd to August 4th

Summer Course in Cotton Grading

The course in cotton grading, warehousing, marketing, and cotton arithmetic offered at the Georgia State College of Agriculture is complete in that it touches every phase of the work needed in buying and selling cotton.



Official cotton grades prepared by the U. S. Bureau of Standards.

The work of the first week consists of several lectures based on the scientific aspects of cotton grading, what constitutes a grade, etc. Some laboratory work is also given the first week. Middling cotton is the only grade studied. If middling cotton is learned thoroughly all subsequent work in cotton classification will be comparatively easy. During this week considerable time is devoted to the study of samples by the score card method which enables the student to become familiar with every defect the samples may carry and recognize them at a glance. Since this grade is the basis of all

cotton buying operations it is important that the student be thoroughly familiar with it.

During the second week the upper grades, or the grades which are better than middling will be studied, and handled in the laboratory in comparison with middling samples. Talks will be given from time to time on the best methods of growing and gathering cotton to obtain the highest grades.

The third week will be given to the lower grades with a daily review of the upper grades and middling. During this week the students will also be required to average lots from a great number of bales. Some attention will also be given to the question of buying, selling and warehousing.

The fourth week is devoted to a study of the stained, tinged, and blue samples, since some of these are found in practically every market. All of the white grades are also reviewed.

During the fifth week the laboratory is turned into a cotton market where each student is required to buy and sell a certain number of bales of cotton daily, and to get or give the correct price for same. He is credited on his accuracy in this line of work. This practice is not only interesting in the extreme but the most instructive of any method ever tried.

Students will have a great many samples to handle daily, and thereby become thoroughly familiar with the appearance and nature of the various grades. For each student who satisfactorily completes the course, there has been provided by the Board of Trustees a certificate of efficiency signed by the President of the College and instructors in the course.

Official Cotton Grades Prepared by the United States Bureau of Standards

A set of official grades composed of the nine standard white grades, Middling Fair, Strict Good Middling, Good Middling, Strict Middling, Middling, Strict Low Middling, Low Middling, Strict Good Ordinary, Good Ordinary are on display at the College.

In addition to the above standards for white grades the following standards have also been adopted by the United States Bureau of Standards: Yellow tinged good middling. Yellow tinged strict middling. Yellow tinged middling. Yellow tinged strict low middling. Yellow tinged low middling.

Yellow stained good middling. Yellow stained strict middling. Yellow stained middling.

Blue stained good middling. Blue stained strict middling. Blue stained middling.

These official types fill a long-felt need of the cotton buyers since the yellow tinged and yellow stained cotton composes no small percentage of the crop grown in north Georgia, and the same is true of

the blue stained types produced on the gray and black soil types in the southern part of the state. Complete sets of all of these standard types are on display in the Cotton Industry Laboratory, and all doubtful grades can, by comparison with these, be easily determined. Since these and other recent improvements in the Course make it far superior to the Course as offered formerly, it would be advisable for old students as well as new ones to register for the work this summer.

Necessary Expenses

The cost of registration is five dollars. This covers the cost of samples, score cards, outlines of lectures, etc., and is the only cost attached to the course aside from board and lodging while a student is in Athens, and the railroad fare from his home to Athens and return.

After the completion of the course a student will be able with a very little experience, to buy cotton and to take charge of a warehouse.

The arrangement of the program is such that all the lectures and the most important instruction in grading are in the afternoon. Therefore, students may take regular summer school work in the University of Georgia, if they so desire. The laboratory is open, however, from 9 a. m. to 5 p. m. and those students who are interested in cotton grading only, may work both morning and afternoon, thereby becoming more proficient.

Course in cotton school given by Prof. L. E. Rast.

Summer Courses in Agriculture

The Georgia State College of Agriculture offers two sets of courses during its summer session, the collegiate courses leading to degrees, and the Summer School courses designed to equip public school teachers for better teaching of agricultural subjects.

Collegiate Courses.

The courses here offered apply toward a degree with credit equal to those given during the regular term.

COST. A tuition fee of \$20.00 for each course will be charged; also a laboratory fee varying with the course, of from \$5.00 to \$10.00 to cover cost of material. In addition the student will be charged for any breakage.

Not more than one full course can be taken by each student and three students will have to apply for any collegiate course offered before it is given.

Agronomy 1 and 2, Cereals and Cereal Judging. The origin, history and production of wheat, corn, oats, barley and rye are con-

sidered. Two hours credit. Laboratory fee, \$5.00. *Professors Fain and Rast.*

Agronomy 5 and 6. A study of the origin and physical properties of different soil types. Factors in crop production. Methods of soil management and studies of commercial fertilizers. Lectures, recitations, laboratory work, field excursions and parallel readings. Three hours credit. Laboratory fee \$5.00. *Professor Crabb.*

Animal Husbandry, 2, 3, 4, and 5. The origin, history and development of the present type of horses, mules, beef cattle, dairy cattle, sheep and swine are taken up. Three hours credit. Laboratory fee \$5.00. *Professor Goodwin.*

Horticulture, 1, 2, and 3. Fruit growing, pruning, propagation, and truck gardening are included in this course. Three hours credit. Laboratory fee \$5.00. *Professors McHatton and J. W. Firor.*

Agricultural Engineering, 1, 2, 3, 4, and 5. Wood and forge work, drawing, farm machinery, motors and farm surveying are treated. Three hours credit. Laboratory fee \$5.00. *Professor Hart.*

Agricultural Engineering 6 and 7. Fencing and farm building. Laboratory fee \$5.00. *Professor Hart.*

Veterinary Medicine, 3 and 4. This course includes anatomy and physiology of farm animals and some work in materia medica. Three hours credit. Laboratory fee \$5.00. *Dr. Burson.*

Agricultural Chemistry 2b and 3b. Qualitative and quantitative analyses for agricultural students. Qualitative analyses equal to that given in college catalogue under "2b" will be required. Three hours credit. Laboratory fee \$10.00. *Professors Worsham and Carter.*

Poultry Husbandry, Farm Poultry 1. A general course in poultry management, covering breeds and breeding, housing, feeding, incubation, brooding and marketing. Breeds best suited to Georgia and their requirements will be studied in detail. Poultry problems in this state will also be fully discussed. Laboratory work will consist of practical work among the flocks on the College poultry farm. Five lectures and three laboratories per week. *Wm. S. Dilts, Instructor.*

Other courses will be given if the number of students applying justify it, and it is found possible to offer them.

Summer School Courses.

(No tuition other than regular summer school fee is charged for these courses).

Elementary Agriculture. The state text-book will be followed in a general way with such references to additional works as may be deemed necessary. Especial emphasis will be given to the work to be done by the students in the elementary schools. This will include simple experiments to be performed at the school, such work as can be done at the home of the students, and in the school garden. Excursions will be made to different parts of the College farm. The

various laboratories of the Agricultural College will be utilized in studying the various laboratory experiments suggested.

Home Study: Halligan's "Fundamental's of Agriculture," Call and Schafen's "Laboratory Manual of Agriculture." *Professor Fain.*

Elementary Agriculture Review Course. Similar to above except on alternate days for economy in time for those who must take many subjects in review for the teacher's examination for license.

High School Agriculture. Warren's "Elementary Agriculture" will be used as a text-book. Especial study will be made of laboratory practice to go with this text. The general scheme for this laboratory work will be outlines showing how seasonal work can be combined with the text, how the home farms and gardens can be used and especial exercises suggested to increase the powers of observation in students. Regular excursions over the college farm, dairy, etc., will be required.

Home Study: "Soils," by Fletcher; "Field Crops," by Wilson & Warburton; "Beginnings in Animal Husbandry," by Plumb; "Fruit Growing," by S. B. Greer; "Rural Agriculture," C. W. Davis. Read all and pass examination on any two. *Professor Fain.*

Elementary Field Crops. This course is designed to give special information on common field crops. A study will be made of their classification, uses, relative importance, their growth, and the functions of seed, leaves and roots. Attention will be given to the following crops. Grain crops, including corn, wheat, oats, sorghum, etc.; forage crops, grasses, legumes, alfalfa, etc.; miscellaneous crops, potatoes, sugar cane, tobacco, etc.; fibre crops, cotton, etc. A brief study of weeds will be made, also of crop rotations. Class work will include lectures, recitations and laboratory exercises. Text: "Field Crops," by Wilson and Warburton: "Field and Laboratory Studies of Crops," by McCall. Home Study: Duggar's "Southern Field Crops." *Professor Crabb.*

Elementary Soils and Soil Fertility. This course is designed for those who desire special information on soils and soil fertility. The work includes a study of soil formation, classification, physical properties and composition of soils. Also the study of conditions essential for plant growth, plant food elements in the soil and their relation to plant growth. The management of different soils for the maintenance of their productivity and the use of commercial fertilizers are studied. Class work consists of lectures, recitations, demonstrations, laboratory experiments and field excursions on the Agricultural College farm. Text: "Soils and Soil Fertility" by Whitson and Walster; "Field and Laboratory Studies of Soils," by McCall. Home Study: Burkett's "Soils." *Professor Crabb.*

Animal Husbandry. This course includes a study of the characteristics and adaptation of the different types of horses, cattle and hogs. Some study is also made of the more important breeds of

each class. The breeding, feeding and management of live stock is also taken up in a general way. The laboratory periods are given over to judging and comparative study of live stock on the College farm, the making of butter, separation of milk and testing of milk and its products.

Manual Training. This course is offered in handling, sharpening and use of elementary tools; in use of square, thumb, guage, saw chisels and planes; in construction work based on Kings "Elements of Construction," wood work, forge work, drawing. *Professor Hart.*

Landscape Gardening and Floriculture. This course will be adapted to teachers of high schools and upper grammar grades. It includes a discussion of the fundamental principles of landscape gardening, and a study of the plants used to obtain the desired effects. The handling, growing and propagation of flowers and other ornamental plants receive attention. Special emphasis is placed upon school and home ground improvement, both in the country and in the city. Regular excursions to the various points of landscape and floricultural interest in and about the city of Athens. Text: "The Manual of Gardening," by L. H. Bailey. Other references "Landscape Gardening," by Waugh; "Landscape Gardening," by Maynard; "Kemp's Landscape Gardening," by Waugh; "Principles of Floriculture," by White. Home Study required.

Agricultural Club Work

This course will present the most effective way of teaching elementary agriculture in rural schools through boys' and girls' clubs. A study of this work will be presented under the following sub-courses following consecutively so as to make one complete course running throughout the session, one hour each day, with laboratory practice as possible.

(1) **Corn, Pig, and Four-Crop Clubs.** History of club work, purposes, methods of organization, relation to school work and home life, and results attained. Practice work will be given. Two weeks, one period each day. *Professor Campbell, Giles and Downing.*

(2) **Canning Club and Home Demonstration Work.** Daily illustrated lectures and a demonstration period each afternoon. Practical work in canning, preserving and making labor-saving devices. Two weeks. *Miss Dowdle and Miss Skinner.*

(3) **Poultry Clubs.** Lectures will cover the general subject of Poultry Husbandry. Laboratory periods scheduled will be held at the poultry farm in the afternoons. *Professor Allen.*

Short Courses

A limited number of mature students will be admitted to the short courses given for the club boys and girls. See Special Bulletin of State College of Agriculture.

Soils and Fertilizers. Five lectures. A study of commercial fertilizers, their function and source of supply. The general types of soil found in the state, and their adaptation will be studied. *Professor Tabor.*

Rotation of Crops. Five lectures. A simple study of the best methods of crop rotation and the effects on increased production. *Professor Tabor.*

Seed Selection. Five lectures. How the boys may improve the producing power of plants by selecting seed from the field. *Professor Giles.*

Live Stock. Five periods. The boys will be required to study the work being done at the College in dairying, beef production, hog raising and horse breeding. *Professor Brown.*

Farm Machinery. A careful study of all forms of improved farm machinery will be provided and the boys will be required to handle the same. *Professor Welch.*

Farm Poultry. The poultry course for boys is designed to give practical knowledge of chicken raising on the farm. *Professor Allen.*

Anatomy and Physiology. A series of five lectures, given in simple language, including studies of the blood, circulation, foods, digestion, and suggestions for the care and handling of farm animals. *Professor Burson.*

Home Gardening. Five lectures. This course of lectures will take up the fundamental principles of gardening.

Five lectures. This course will consist of a general discussion of fruits and varieties, soils and fertilizers and cultural methods required. *Professor Ragsdale.*

Cooking and Food Study. This course will take up the study of the five food principles and their use in the diet, the preparation and serving of meals and problems of household management. *Miss Skinner.*

Rural Home Economics. A practical course, illustrated by pictures and charts, for the study of labor saving conveniences for the home. *Miss Skinner.*

Sewing. Instructions will be given in plain sewing and the care and repair of clothing. Each girl will bring her own scissors, thimble and needles, and will be expected to pay for the material used in the making of a canning club dress. *Miss Dowdle.*

Farm Poultry. The poultry course for girls is designed to give a practical knowledge of chicken raising on the farm. Lectures and laboratory work. *Professor Allen.*

Farm Dairying. Five lectures and five laboratory periods. Problems involved in handling milk and cream and production and marketing of dairy products will be studied. *Professor Howell.*

Home Gardening. This course is designed to teach the fundamental principles of vegetable gardening. *Professor Firor.*

Home Orchards. This course consists of a general discussion of fruits and varieties, soils and fertilizers, and cultural methods required. Special attention is given to the home fruit area. *Professor Firor.*

Other Club Activities. This course will include specific training in making a standard pack and securing a marketable product of high quality, the keeping of club records, booklet making and writing garden stories. In addition the girls will be given training in subjects which will foster club spirit and train for community and home life. *Miss Dowdle.*

Summer Graduate Work

Agronomy. A course in Farm Management was given in 1916; in 1918 a course in Soil Fertility may be expected.

For 1917: **Fertilizers.** 1. A general study of the principles involved in the use of fertilizers and the methods of conducting experiments. 2. Specific problems to be worked out either in greenhouse or field.

A minor course. Prerequisites: Agronomy 5, 6 and 10. *Professor Fain.*

Milk Production. The breeding, feeding and management of dairy cattle will be taken up in this course and the production and marketing of various dairy products. Work will be given with herd records, breeding records and a study of tabulated pedigrees. Laboratory work will consist of taking records on the College herd and work in the College creamery. Home work will consist of 15 to 20 records on dairy cattle with itemized statements of feed costs and cost of production.

Eckles, "Dairy Cattle and Milk Production;" Eckles & Warren, "Dairy Farming," and McKay and Larson, "Principles and Practices of Butter Making."

Prerequisite: Animal Husbandry, 7, 8, and 9. *Professor Goodwin.*



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